

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	213	worldwide near5 (tun\$3 or radio or radio\$1communication)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/03 14:47
L3	1	2 and (countr\$3 near3 table)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/03 14:52
L4	16	2 and ITU	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/03 14:49
L5	357	frequenc\$3 near3 channel near3 table	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/03 14:49
L6	4	5 and (countr\$3 near3 table)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/03 15:03

(to Western Hemisphere,Eastern Hemisphere,Footprints by Dish Size)

GLOBAL VIDEO STANDARD MAP (dish size list)

List by country of their TV broadcast standards including line voltage

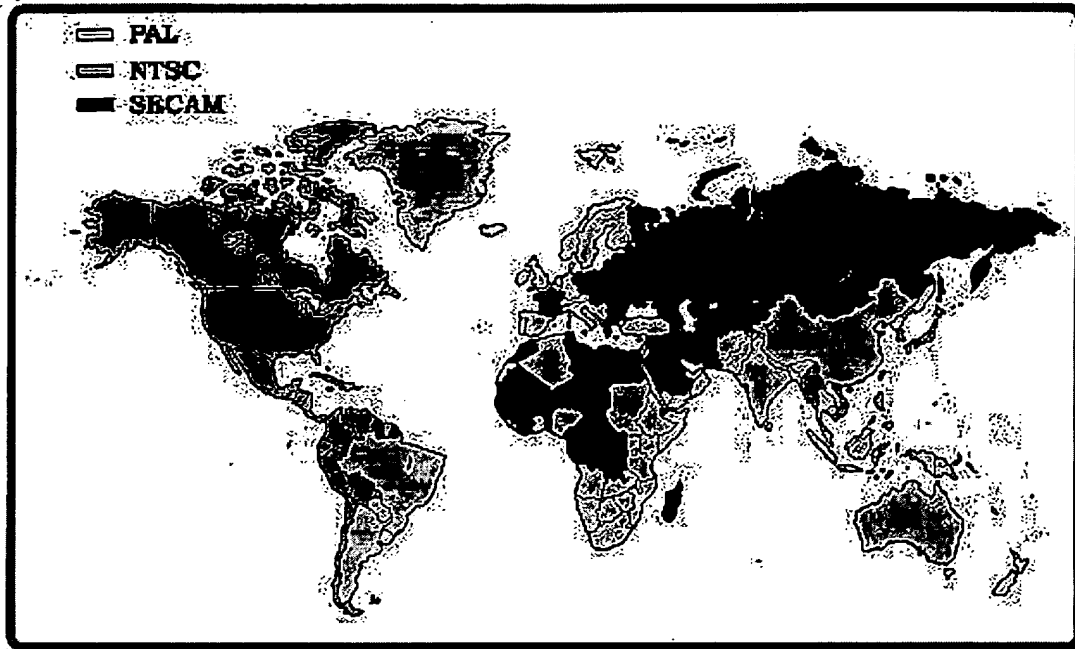
Example layouts of principal frequency formats

North American TV frequencies (MHz)/channel assignments

International TV frequencies (MHz)/channel assignments

Worldwide Television Standards Principal Nomenclature

Abbreviation	Television Standard Name	Year Developed
NTSC	National Television System Committee	1948
SECAM	Sequential Color a Memoire	1957
PAL	Phase Alternating Line	1961



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Key to Broadcast Standards in Tables Below in Example Layout Frequency
Diagrams of Broadcasting System Nomenclature

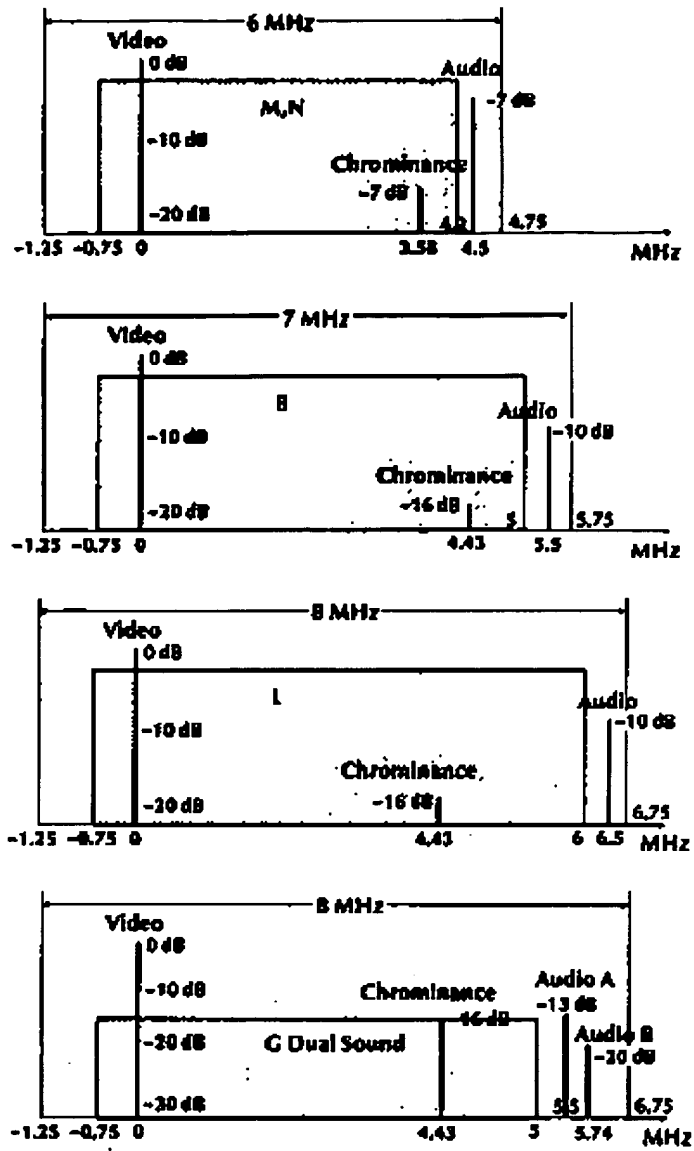
WORLDWIDE TELEVISION BROADCAST STANDARDS				
Country	Broadcast Standard		Colour System	Line Voltage - Frequency Standard
	VHF	UHF		
Afghanistan	B		PAL	220-50
Albania	B	G		220-50
Algeria	B		PAL	127/220/380-50
Angola				1220-50
Antigua	M		NTSC	110-50
Argentina	N	N	PAL	220-50
Australia	B		PAL	240/415-50
Austria	B	G	PAL	220/380-50
Azores	B		PAL	220-50
Bahamas	M		NTSC	110/220-60
Bahrain	B		PAL	230-50
Bangladesh	B		PAL	220/440-50
Barbados	M		NTSC	110/220-50
Barbuda	M		NTSC	110/220-50
Belgium	B	H	PAL	220-50
Benin	K			220/380-50
Bermuda	M		NTSC	115/230-60
Bolivia	M	N	NTSC	110/220-50
Brazil	M	M	PAL	110/127/220-50/60
Brunei	B		PAL	110/127/220-50/60
Bulgaria	D	K	SECAM	220-50
Canada	B	M	NTSC	115/230-60
Canary Islands	B		PAL	110/220-50
Chile	M		NTSC	220/380-50
China	D	K	PAL	220-50
Colombia	M		NTSC	110/220-60
Congo	D			220-50
Costa Rica	M		NTSC	120/220-60
Cuba	M	M	NTSC	115/220-60
Cyprus	B	C	PAL	240-50
Czechoslovakia	D	K	SECAM	220-50
Denmark	B	G	PAL	220/380-50
Diego Garcia	M		NTSC	110/220-60
Djibouti	K		SECAM	220-50
Dominican Rep.	M	M	NTSC	110-60
Dubai (UAE)	B	G	PAL	220-50
East Germany	B	G	SECAM	220/380-50
Ecuador	M		NTSC	110/220-60
Egypt	B		SECAM	220-50
El Salvador	M		NTSC	110/220-60
England	A	I	PAL	240/415-50
Ethiopia	B		PAL	127/220-50/127/220-50
Faroe Islands	B		PAL	220-50
Finland	B	G	PAL	220/380-50
France	E	L	SECAM	various-50
Gabon	K		SECAM	220-50
Ghana	G		PAL	230-50
Gibraltar	B		PAL	240-50
Greece	B	H	SECAM	220-50
Greenland	B		PAL	220/380-50
Guadeloupe	K		SECAM	220-50
Guam	M		NTSC	110/220-60
Guatemala	M		NTSC	110/220/127-60

Country	Broadcast Standard		Colour System	Line Voltage - Frequency Standard
	VHF	UHF		
Guyana	K		SECAM	127/220-50
Guinea Republic	K		SECAM	220/380-50
Guinea-Equatorial	B			220/380-50
Haiti	M		NTSC	110/220-50/60
Holland	B	G	PAL	220-50
Honduras	M		NTSC	110-60
Hong Kong	B	I	PAL	200-50
Hungary	D	K	SECAM	220-50
Hungary	B	G	PAL	220-50
Iceland	B	G	PAL	230/400-50
India	B		PAL	220-50
Indonesia	B		PAL	127/220-50
Iran	B	G	SECAM	220-50
Iraq	B		SECAM	220/380-50
Ireland	I/A		PAL	220/380-50
Israel	B	G	PAL	230/400-50
Italy	B	G	PAL	220/380-50
Ivory Coast	K		SECAM	220/380-50
Jamaica	M		NTSC	110/220-50
Japan	M		M	110/220-50/60
Johnson Island	M		NTSC	110/220-60
Jordan	BG		PAL	220-50
Kenya	B		PAL	240-50
Korea (South)	M	M	NTSC	110/60
Korea (North)	D		PAL	220-50
Kuwait	B		PAL	240-50
Laos	M			127/220-50
Lebanon	B		SECAM	110/190-50
Liberia	B		PAL	120-60
Libya	B		SECAM	127/130-50
Luxembourg	C	G/L	PAL/SECAM	110/220-50
Madeira	B		PAL	220/380-50
Madagascar	K		SECAM	110/220-50
Malawi	B			230-50
Malaysia	B		PAL	230/400-50
Maldives	B		PAL	220-50
Malta	B	H	PAL	240-50
Martinique	K		SECAM	220-50
Mauritania	K		SECAM	220/380-50
Mauritius	B		SECAM	240-50
Mexico	M		NTSC	110/220-60
Midway Islands	M		NTSC	110/220-60
Micronesia	M		NTSC	
Monaco	E	G/L	PAL/SECAM	127/220-50
Mongolia	D		SECAM	220-50
Morocco				
Mozambique	B		PAL	220-50
Namibia	PAL			220-50
Netherlands Ant.	M		NTSC	127/220-50/60
Netherlands	B	G	PAL	220-50
New Caledonia	K		SECAM	220-50
New Zealand	B		PAL	230/400-50
Nicaragua	M		NTSC	120-60
Niger	K		SECAM	220/380-50
Nigeria	B	G	PAL	230/400-50
N.Mariana Island	M		NTSC	110/220-60

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Country	Broadcast Standard		Colour System	Line Voltage - Frequency Standard
	VHF	UHF		
Norway	B	G	PAL	230-50
Oman	B	G	PAL	220-50
Pakistan	B		PAL	230/400-50
Panama	M		NTSC	110/115/120/126-60
Paraguay	N		PAL	220-50
Peru	M		NTSC	220-60
Philippines	M	M	NTSC	110/220-60
Poland	D	K	SECAM	220/380-50
Portugal	B	G	PAL	220/380-50
Puerto Rico	M	M	NTSC	120-60
Qatar	B		PAL	220-50
Reunion	K		SECAM	220-50
Romania	D		SECAM	220-50
Rwanda	K			220-50

Worldwide Television Standards
Example Layouts of Principal
Frequency Formats
(Codes Apply to Tables Above)

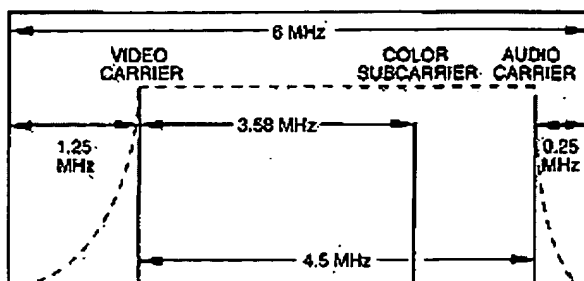


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North American Television Frequencies/Channels (MHz)

SUB-BAND	Band	Carriers
Channel	Width	Video Audio
T-7	5.75	11.75 11.5
T-8	11.75	17.75 13 17.5
T-9	17.75	23.75 19 23.5
T-10	23.75	29.75 25 29.5
T-11	29.75	35.75 31 35.5
T-12	35.75	41.75 37 41.5
T-13	41.75	47.75 43 47.5

TV-IF 40 46 45.75 41.25



Low Band	Band	Carriers
CH	Width	Video Audio
2	54 60	55.25 59.75
3	60 66	61.25 65.75
4	66 72	67.25 71.75
54 IRC	72 78	73.25 77.25
5	78 84	79.25 83.75
55 IRC	84 90	85.25 89.75
6	90 96	91.25 95.75
56 IRC	96 102	97.25 101.75
7	102 108	103.25 107.75
57 IRC	108 114	109.25 113.75
8	114 120	115.25 119.75

FM	Band	Carriers
CH	Width	Video Audio
57 I A-5	90 96	91.25 95.75
58 I A-4	96 102	97.25 101.75
59 I A-3	102 108	103.25 107.75
98 A-2	108 114	109.25 113.75
99 A-1	114 120	115.25 119.75

Mid-Band	Band	Carriers
CH	Width	Video Audio
14 A	120 126	121.25 125.75
15 B	126 132	127.25 131.75
16 C	132 138	133.25 137.75
17 D	138 144	139.25 143.75
18 E	144 150	145.25 149.75
19 F	150 156	151.25 155.75
20 G	156 162	157.25 161.75
21 H	162 168	163.25 167.75
22 I	168 174	169.25 173.75

HF Band	Band	Carriers
CH	Width	Video Audio
7	174 180	175.25 179.75
8	180 186	181.25 185.75
9	186 192	187.25 191.75
10	192 198	193.25 197.75
11	198 204	199.25 203.75
12	204 210	205.25 209.75
13	210 216	211.25 215.75

Super-Band	Band	Carriers
CH	Width	Video Audio
23 J	216 222	217.25 221.75
24 K	222 228	223.25 227.75
25 L	228 234	229.25 233.75
26 M	234 240	235.25 239.75
27 N	240 246	241.25 245.75
28 O	246 252	247.25 251.75
29 P	252 258	253.25 257.75
30 Q	258 264	259.25 263.75
31 R	264 270	265.25 269.75
32 S	270 276	271.25 275.75
33 T	276 282	277.25 281.75
34 U	282 288	283.25 287.75
35 V	288 294	289.25 293.75
36 W	294 300	295.25 299.75

Hyper-Band	Band	Carriers
CH	Width	Video Audio
37 AA	300 306	301.25 305.75
38 BB	306 312	307.25 311.75
39 CC	312 318	313.25 317.75
40 DD	318 324	319.25 323.75
41 EE	324 330	325.25 329.75
42 FF	330 336	331.25 335.75
43 GG	336 342	337.25 341.75
44 HH	342 348	343.25 347.75
45 II	348 354	349.25 353.75
46 JJ	354 360	355.25 359.75
47 KK	360 366	361.25 365.75
48 LL	366 372	367.25 371.75
49 MM	372 378	373.25 377.75
50 NN	378 384	379.25 383.75
51 OO	384 390	385.25 389.75
52 PP	390 396	391.25 395.75
53 QQ	396 402	397.25 401.75
54 RR	402 408	403.25 407.75
55 SS	408 414	409.25 413.75
56 TT	414 420	415.25 419.75
57 UU	420 426	421.25 425.75
58 VV	426 432	427.25 431.75
59 WW	432 438	433.25 437.75
60 XX	438 444	439.25 443.75
61 YY	444 450	445.25 449.75
62 ZZ	450 456	451.25 455.75

UHF Band	Band	Carriers
CH	Width	Video Audio
14	470 476	471.25 475.75
15	476 482	477.25 481.75
16	482 488	483.25 487.75
17	488 494	489.25 493.75
18	494 500	495.25 499.75
19	500 506	501.25 505.75
20	506 512	507.25 511.75
21	512 518	513.25 517.75
22	518 524	519.25 523.75
23	524 530	525.25 529.75
24	530 536	531.25 535.75
25	536 542	537.25 541.75
26	542 548	543.25 547.75
27	548 554	549.25 553.75
28	554 560	555.25 559.75
29	560 566	561.25 565.75
30	566 572	567.25 571.75
31	572 578	573.25 577.75
32	578 584	579.25 583.75
33	584 590	585.25 589.75
34	590 596	591.25 595.75

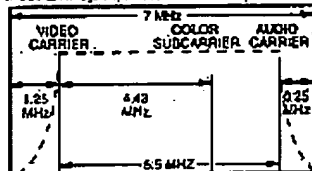
Channel	Band Width	Carriers Video	Audio
35	596	602	597.25 601.75
36	602	608	603.25 607.75
37	608	614	609.25 613.75
38	614	620	615.25 619.75
39	620	626	621.25 625.75
40	626	632	627.25 631.75
41	632	638	633.25 637.75
42	638	644	639.25 643.75
43	644	650	645.25 649.75
44	650	656	651.25 655.75
45	656	662	657.25 661.75
46	662	668	663.25 667.75
47	668	674	669.25 673.75
48	674	680	675.25 679.75
49	680	686	681.25 685.75
50	686	692	687.25 691.75
51	692	698	693.25 697.75
52	698	704	699.25 703.75
53	704	710	705.25 709.75
54	710	716	711.25 715.75
55	716	722	717.25 721.75
56	722	728	723.25 727.75
57	728	734	729.25 733.75
58	734	740	735.25 739.75
59	740	746	741.25 745.75
60	746	752	747.25 751.75
61	752	758	753.25 757.75
62	758	764	759.25 763.75
63	764	770	765.25 769.75
64	770	776	771.25 775.75
65	776	782	777.25 781.75
66	782	788	783.25 787.75
67	788	794	789.25 793.75
68	794	800	795.25 799.75
69	800	806	801.25 805.75
70	806	812	807.25 811.75
71	812	818	813.25 817.75
72	818	824	819.25 823.75
73	824	830	825.25 829.75
74	830	836	831.25 835.75
75	836	842	837.25 841.75
76	842	848	843.25 847.75
77	848	854	849.25 853.75
78	854	860	855.25 859.75
79	860	866	861.25 865.75
80	866	872	867.25 871.75
81	872	878	873.25 877.75
82	878	884	879.25 883.75
83	884	890	885.25 889.75

Channels requiring FCC Docket 21006 Offsets are shown with a positive offset.

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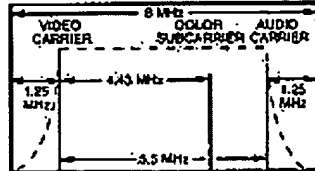
International Television Frequencies/Channels (MHz)

West Europe PAL B & G Bands I&III



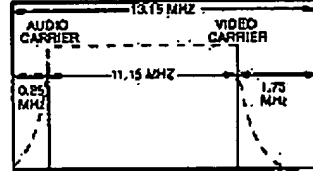
CH	Band	Width	Carriers
			Video Audio
1F	47	54	38.90 33.40
E2	54	61	48.45 53.75
E3	61	68	55.25 60.75
E4	68	75	62.25 67.75
X	75	82	69.25 74.75
Y	82	89	76.25 81.75
Z	89	96	83.25 88.75
S3	118	125	119.25 124.75
S4	125	132	126.25 131.75
S5	132	139	133.25 138.75
S6	139	146	140.25 145.75
S7	146	153	147.25 152.75
S8	153	160	154.25 159.75
S9	160	167	161.25 166.75
S10	167	174	168.25 173.75
E5	174	181	175.25 180.75
E6	181	188	182.25 187.75
E7	188	195	189.25 194.75
E8	195	202	196.25 201.75
E9	202	209	203.25 208.75
E10	209	216	210.25 215.75
E11	216	223	217.25 222.75
E12	223	230	224.25 229.75
S11	230	237	231.25 236.75
S12	237	244	238.25 243.75
S13	244	251	245.25 250.75
S14	251	258	252.25 257.75
S15	258	265	259.25 264.75
S16	265	272	266.25 271.75
S17	272	279	273.25 278.75
S18	279	286	280.25 285.75
S19	286	293	287.25 292.75
S20	293	300	294.25 299.75

PAL B & G Bands IV & V



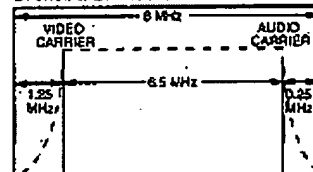
CH	Band	Width	Carriers
			Video Audio
S40	454	462	455.25 460.75
S41	462	470	463.25 468.75
21	470	478	471.25 476.75
22	478	486	479.25 484.75
23	486	494	487.25 492.75
24	494	502	495.25 500.75
25	502	510	503.25 508.75
26	510	518	511.25 516.75
27	518	526	519.25 524.75
28	526	534	527.25 532.75
29	534	542	535.25 540.75
30	542	550	543.25 548.75
31	550	558	551.25 556.75
32	558	566	559.25 564.75
33	566	574	567.25 572.75
34	574	582	575.25 580.75
35	582	590	583.25 588.75
36	590	598	591.25 596.75
37	598	606	599.25 604.75
38	606	614	607.25 612.75
39	614	622	615.25 620.75
40	622	630	623.25 628.75
41	630	638	631.25 636.75
42	638	646	639.25 644.75
43	646	654	647.25 652.75
44	654	662	655.25 660.75
45	662	670	663.25 668.75
46	670	678	671.25 676.75
47	678	686	679.25 684.75
48	686	694	687.25 692.75
49	694	702	695.25 700.75
50	702	710	703.25 708.75
51	710	718	711.25 716.75
52	718	726	719.25 724.75
53	726	734	727.25 732.75
54	734	742	735.25 740.75
55	742	750	743.25 748.75
56	750	758	751.25 756.75
57	758	766	759.25 764.75
58	766	774	767.25 772.75
59	774	782	775.25 780.75
60	782	790	783.25 788.75
61	790	798	791.25 796.75
62	798	806	799.25 804.75
63	806	814	807.25 812.75
64	814	822	815.25 820.75
65	822	830	823.25 828.75
66	830	838	831.25 836.75
67	838	846	839.25 844.75
68	846	854	847.25 852.75
69	854	862	855.25 860.75

French E



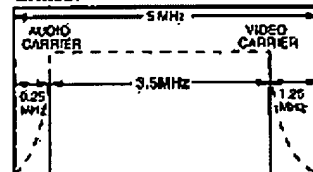
CH	Band	Width	Carriers
			Video Audio
2	41.0	51.15	42.40 41.25
4	51.15	67.3	65.55 54.40
5	67.3	175.15	164.00 173.15
6	175.15	175.15	173.40 162.25
7	175.15	188.55	177.15 188.30
8A	174.0	188.0	185.25 174.10
8	175.15	188.3	186.55 175.40
9	188.55	201.7	190.30 201.45
10	188.3	201.45	199.70 188.55
11	201.7	214.85	203.45 214.60
12	201.45	214.6	212.85 201.70

French L Bands I & III



CH	Band	Width	Carriers
			Video Audio
2	40.0	57.0	55.75 49.25
3	57.0	61.25	60.5 54.0
4	61.25	65.0	63.75 57.25
5	65.0	182.75	176.0 182.5
6	182.75	190.75	184.0 170.5
7	190.75	198.75	192.0 178.5
8	198.75	206.75	200.0 206.5
9	206.75	214.75	208.0 214.5
10	214.75	222.75	216.0 222.5

British



CH	Band	Width	Carriers
			Video Audio
1	41.25	46.25	45.00 41.50
2	46.0	53.0	51.75 44.25
3	53.0	98.0	96.75 53.25
4	98.0	63.0	61.75 58.25
5	63.0	68.0	66.75 61.25
6	176.0	181.0	179.75 176.25
7	181.0	186.0	184.75 181.25
8	186.0	191.0	189.75 186.25
9	191.0	196.0	194.75 191.25
10	196.0	201.0	199.75 196.25
11	201.0	206.0	204.75 201.25
12	206.0	211.0	209.75 206.25
13	211.0	216.0	214.75 211.25
14	216.0	221.0	219.75 216.25

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